

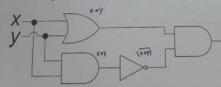
# King Saud University College of Computer and Information Sciences Department of Information Systems IS201–Fundamentals and Ethics of Information Systems Quiz 1 v1

- Selecting the right hardware is important, but every software can run on any hardware (True or Falso)
- Central Processing Unit (CPU) consists of two components: Arithmetic unit and control unit (True) or False)
- Clocks of different computers may drift after a while even when they are synchronized <u>(True</u> or False)
- 4. Secondary storage is cheaper than memory (True) or False)
- 5. Random Access Memory (RAM) is volatile (True)or False)
- 6. A Terabyte is 1024 \* 1024 MB (True or False)
- 7. The Boolean expression (A + B)' + C is equivalent to:

8. The different forms of multiprocessing are: \_parollel (competel and

- 9. The decimal equivalent to 101102 is: 22\_
- 10. The decimal equivalent to 1101.112 is: 13.75
- 11. Convert the decimal number 64 to binary: 1000000
- 12. Convert the hexadecimal number 2B3 to decimal: 2 x 16 + ux 16 + 3 x 16

15. Find the output of the following logic circuit:



B=11

## Question 1 (CLO 1): True (T) or False (F) [3 points]

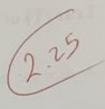


- 1) DSS system can include database, model base and user interface.
- The unique value of learning system is that they allow organization to capture and use the wisdom of expert and specialist.
- Quality information that is guarded against unauthorized access is said to be secure.
- 4) Knowledge is a collection of facts organized in such a way that they have value beyond the facts themselves
- 5) Competitive advantage is significant and ideally long-term benefit to a company over its competition.
- 6) One of the techniques used in finding a job is creating a LinkedIn account.

## Question 2 (CLO 2): Fill in the blanks [4 points] Use words from the list below to fill in the blanks

[RAM, ROM, Software as a Service (SaS), Cloud computing, Green Computing, Software bug, Computer-based information system (CBIS), Embedded system, Proprietary software, Data centers, Utility Programs, Middleware, Clock speed, Storage capacity, Application software, Systems software]

- 1) Efficient environment, recycling and reduce harmful materials are all concerns of freen Computing.
- (2) Soft ware bug is a defect in a program that keeps it from performing as it should.
- 3) The set of programs that coordinates the activities and functions of hardware and other programs is called System Software.
- 4) Middle wave is software that allows various systems to communicate and exchange data.
- 5) ROM is a non-volatile, permanent storage
- 6) Cloud Computations businesses to subscribe to Web-delivered application software by paying a monthly service charge or a per use fee.
- 7) The Clock speed. is a series of electronic pulses measured in Gigahertz (GHz).
- 8) Data center. houses the computer hardware that delivers an organization's data and information services



# Question 3 (CLO 2): Comparisons [3 points]

1) Differentiate between sequential access and direct access and give one example of devices that use these methods.

se these methods.	Direct access		
Sequential access			
system.	Can access the system		
ex: SASD	ex: LMs		

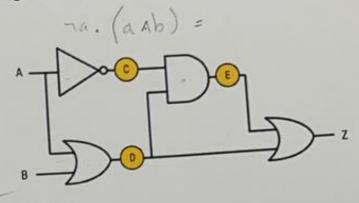
2) Differentiate between portable and non-portable computers and give one example of a device for each one.

Portable computers	Non-portable computers
A Device "Contains System Software and applications, Usualy small in size who so it's portable you can use it in every where. ex: Laptop, mobile and tablets.	Non-portable, Usualy are big in site with wires ex: Disktop Computers

3) Differentiate between the two types of software, by giving one advantage and one disadvantage of Off-the-Shelf software over Proprietary software, and one advantage and one disadvantage of Proprietary software over Off-the-Shelf software.

	Off-the-Shelf software	Proprietary software		
Advantage	Economical and, more	The person or orgnization or the company, will get exactly what they need in the program.		
Disadvantage	The user may not find all needs.	High risk,		

- 5) Write Boolean expressions for the following logic circuit.
  - · C= 7a · D= (a1b) · E= 7a. (a1b) · Z= 7a. (a1b) + (4+3)



6) Create a logic circuit for the following Boolean expression:

B) OR (B and Not C)

Z = (A  and  B) OR (B)	and Not C)
a b c , Tc	and Note; (anb) v (bn Te)
0000	0
0000	00000
	1 6 1
i ' i ' i ' i ' i ' i ' i ' i ' i ' i '	0.25
a— b—	TT TT
C-	
Ä	End of Exam
B-	
<i>C</i> .	

			32	2	18	41	0
32 /2	1 16	10	k1		12	6	4
16 /2	8	0	91		10	•	
8 /2	4	0					
4 /2	2	0			me	(10)	
2 /2	1	0					
1/2	0	1 5			1	5.5	
Question 5 (C	CLO 3)	: Binary Number	s, Gates [7 poi	nts]		2	1

1) Convert the decimal number 32 to the following bases:

Base 2	Base 8
= Xx x + 2/2 The binary	18x8 2x8 The Octal
P 1 1 7 7 7	The number is
= 8+2/ number is	15/9/1/
10//100000	-19/ HO
38/	5/16

2) Covert the following numbers to decimal:

(4B) <sub>16</sub>	(101011)2
= 4x 16" + B x 160" = 64" + 11" = 75	$= 1 \times 2^{5} + 0 \times 2^{4} + 1 \times 2^{3} + 0 \times 2^{2} + 1 \times 2^{4} + 1 \times 2^{4}$ $= 32 + 0 + 8 + 0 + 2 + 1$ $= 43$

3) Convert the binary number 10010110 to:

Base 8	4 3 2	Base16
1x8 + 0x8 + 0x8 + + 0 x 8 + = 524828 +	128+028+128+	1x8 1x16 + 0x16 + 0x16 + 0x16 + 0x16 + 0x16 + 0x16 = 0.5

4) Do the following operation for the binary numbers, showing all carries (if additional) or borrows (if subtraction):

1110 - 1011	10111 + 10011	
1011 -	101010	

8180 8

0+1 = 1 0

\* هذي السّابتر الأول

## Question 4 (CLO 1): Short answers [3 points]

- Identify two global challenges associated with information systems.
  - Time, distance challenges.
  - State, region and Country's laws.

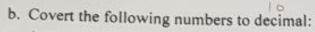
2) What is technology diffusion theory? List two categories of innovation adopters.

A theory that describe the acceptance of people to the diffusion of technology, and how they adapt or not with it.

Innovation Adopters:

- early adopters.
   early majority.
   Laggards.

- 3) Give four strategies employed by organizations to achieve competitive advantage?
  - Cost leadership.
  - Differentiation.
  - Niche Stratigy.

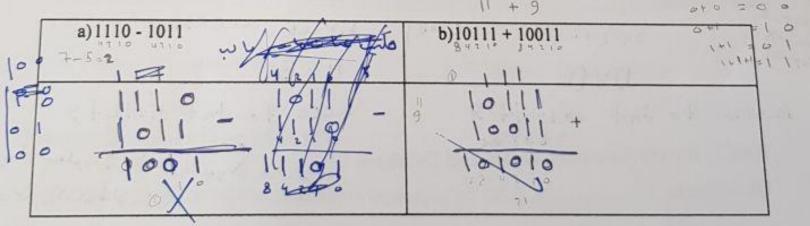


3A <sub>16</sub>	11012
3 x 16 2 + 1 x 16 1 + 0 x 16 = 780	1X23 + 1X2+ 0X2 + 1X2 = 13

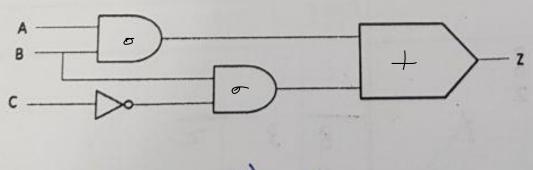
c. Convert the binary number 101,101,001, to:

Base		Base16	
27 2	2 2 = 22	34 16 2 1 0 11 0 16 2 2 2 1 3	1001

d. Do the following operation for the binary numbers, showing all carries (if additional) or borrows (if subtraction):



e. Write Boolean expression for the following logic circuit.



(A · B) + (B · C) = Z

4

Question 3: Fill in the blanks Use words from the list below to fill in the blanks

[ Green Computing, Software bug, Embedded system, Proprietary software]

1) Efficient environment, recycling and reduce harmful materials are all concerns of 2) Unexpected termination of a program is one of the problems caused by a 50ff Ware 6

# Question 4: Short answers

1) Identify TWO advantages of the use of solid state secondary storage devices (SSDs) over magnetic or optical media

2) Differences between Sequential access and direct access and give one example of devices that

Convert the decimal number 28 to the following bases: 2

2	balant	5		Base 8		(a	
8	2	0 2		28	8		
3	2 2	0	X	8	3	2	X
21	0	7		7		1.03	)

# Question 3: Fill in the blanks

Use words from the list below to fill in the blanks

# [ Computer program, Software bug, Embedded system, Systems software]

- 1) com puter proceduences of instructions for the computer. 2) Each type of system soft is designed for a specific CPU and class of hardware.

## Question 4: Short answers

- 1) Identify TWO of Green computing goals.
- 1- Lowering energy use inorgnalzitions .. ( This share die) 2-reducing toosic use of metireels ( significant still sent
- 2) Differentiate between Multitasking and Multithreading.
- more then one more then one thread of the same computer same programs in the same. In the same time (...

# Part 2: Binary Numbers, Gates and Database

#### Question 1:

a. Convert the decimal number 24 to the following bases:

Base 2 $24 = ? 2 + (101000) 2   12   0 $ $2\sqrt{24} = ? 2 + (101000) 2   1   0 $ $2\sqrt{24} = ? 2 + (101000) 2   1   0 $ $2\sqrt{24} = ? 2 + (101000) 2   $	Base 8  1 24 24 10 = (30) 3  2 3 0 3  3 3 0 3	l
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		3

b. Covert the following numbers to decimal:

2.0 ,2 10	10012
28, =(211), 4	(1001) = (9)
16 x 2 + 16 x 1 + 16 x 1=(529)	$(1001)_2 = (9)_{19}$ $2^{\frac{3}{2}} + 2^{\frac{5}{2}} + 2^{\frac{5}{2}} + 2^{\frac{5}{2}} + 2^{\frac{5}{2}} = 9$

c. Convert the binary number 111011011 to:

Base 8

Base 16

Ba

d. Do the following operation for the binary numbers, showing all carries (if additional) or borrows (if subtraction):

a) 1111 - 0111	
	P)0111 + 0011
1111	111
9111-	0111
1000	1210
	120

e. Make the truth table for the following Boolean expression.

((NOT A AND NOT B) OR (A AND B))

A B A B A S T TO S TO S TO S TO S TO S TO S TO	- N
A B A B A B A B (A.B)+ (A.	R)

### Question 2: True (T) or False (F)

- 1) Combinational circuits have no cycles in them, which means no outputs feed back into their own inputs. CE
- 2) Truth table capture every inputs and outputs possible for circuit.



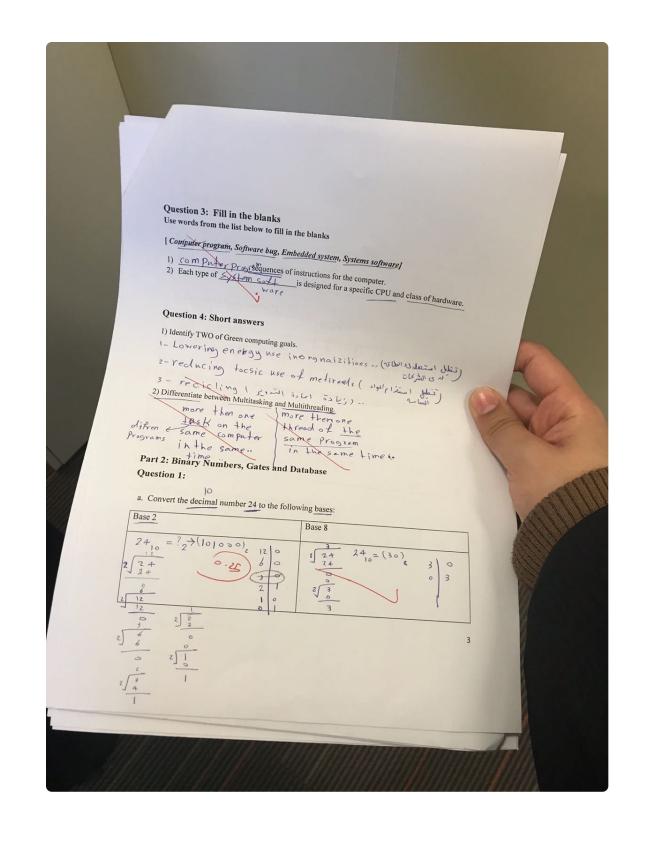
## Part 3: Database system and Application Question 1: Multiple Choices

1) Basic data manipulation includes that involves eliminating columns in relational database according to certain criteria. a. Projecting x b. Selecting X c. Linking d. Joining A simple but highly useful way to organize the data into collection of twodimensional tables called relation. a. Relational model b. Enterprise data modelling c. SQL x d. Data dictionary X

### Question 2: Fill in the blanks Use words from the list below to fill in the blanks

[ Domáin, Physical access path, Logie access path, DMBS, NoSQL, Concurrency control]

- 1) When an application requests data from the DBMS, it follows a Logic access gath to the data. When DBMS access database it follows phis i an access path
- 2) A Damain is the range of allowable values for a data attribute.
- Databases rely on con Coxen cy and by locking database records to ensure that other transactions do not modify the database until the first transaction succeeds or fails





King Saud University	Final Exam – IS 201
College of Computer & Information Sciences	Fall 2017-2018
Dept. of Information Systems	Dec 25, 2017, Time: 2h

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#### Question I: Determine whether each of the following sentences is True or False (14 pts)

- 1. MISs typically provide standard reports generated with data and information from a TPS or ERP system.
- 2. TPS is an integrated program managing vital business operations for an entire multisite organization.
- 3. RAID is a method of storing data so that it can be accessed more quickly.
- 4. Application software consists of programs that help users solve particular computing problems.
- 5. To run, applications request services from the operating system through a defined application program interface.
- Today, most organizations use the database approach to data management, where multiple information systems share a pool of related data.
- The relational DB model describes data using a standard tabular format; all data elements are placed in three-dimensional tables called relations, which are the logical equivalent of files.
- Client/server refers to a computing environment where software and storage are provided as an Internet service and accessed with a Web browser.
- 9. HTML is the standard page description language for Web pages that tells the Web browser how to display Web pages.
- 10. A Web portal is a Web page that combines useful information and links and acts as an entry point to the Web complete with a search engine, subject directory, daily headlines, and other items of interest.
- 11. Copyright laws protect processes, machines, and compositions of matter.
- 12. To protect your PC and prevent it from spreading malware to your co-workers, some antivirus software scans and cleans both incoming and outgoing e-mail messages.
- 13.  $(15)_8 = (13)_{10}$
- 14.  $(23)_{10} = (10101)_2$

#### Question II: Choose the correct answer (14 pts)

1.			g on	verbal or written commands in English, Spanish, or other
	human l	anguages.		
	a. V	/irtual reality	c.	Natural language processing
	b. A	Artificial intelligence		Learning systems
2.	-	of the phase of systems development nity to be addressed.	is to	o gain a clear understanding of the problem to be solved or
	a. s	ystems analysis	c.	systems design
	b. s	ystems investigation	d.	systems implementation
3.		rmation system that operates in the sph we a common goal.	ere o	f influence supports two or more people who work together
	a. p	personal	c.	enterprise
	b. v	vorkgroup	d.	none of the above
	Page	1		

4.	An operating system with capabilities allows	a user	to run more than one application at the same time.				
	a. networking capability		memory management				
-	b. hardware independence		multitasking				
5.	<ol> <li>The is a description that involves "telling" the DBMS the logical and physical structure of the data and the relationships among the data for each user.</li> </ol>						
	relationships among the data for each user.						
	<ul> <li>a. entity relationship diagram</li> </ul>		schema				
	b. Data model		data manipulation language				
6.	is a visual approach to developing database	reque	sts.				
	a. Query by example		Data definition language				
	b. SQL	d.	Data manipulation language				
7.	<ol> <li>Someone responsible for planning, designing, creating, operating, securing, monitoring, and maintaining databases is called a(n)</li> </ol>						
	called a(n)						
	a. data administrator	c.	data owner				
	b. data analyst	d.	database administrator				
8.	Is a network protocol that enables traffic to	be rou	ted among all the networks connected to the Internet.				
	a. ISO seven layer model	c.	IP				
	b. TCP		Wi-Fi				
	B. Challes and the second						
9.	Data is broken into to be transmitted over the	Intern	et				
	a. bits		bytes				
	b. Messages	d.	packets				
10.	is a type of malware that e	xecute	s when specific conditions occur.				
	a. Virus		Logic bomb				
	b. Worm	d.	Trojan horse				
11.	A useful guideline to protect corporate computers fr	om cri	minal hackers is to				
	a. Install antivirus software on all computers	c.	Remove any firewall that may have been				
			installed between your corporate network and				
	b. Avoid creating frequent backups of critical	d	the Internet Enable several guest accounts				
	data	u.	Litable several guest accounts				
12.	12 involves publishing an intentionally false written statement that is damaging to a person's or an organization's						
	reputation.						
	a. Blogging	c.	Phishing				
	b. Libel		Unfriending				
13.	$(10111)_2 + (11101)_2 = $						
	a. 111001	c.	10110				
	b. 110100	d.	100111				
14.	$(11010)_2 - (1101)_2 = $						
	a. 111	c.	1101				
	b. 1011	d.	1001				
			Question II: Multiple				
	Page   2		1. 2. 3. 4. 5. <b>c b d c</b>				
			6. 7. 8. 9. 10.				
			a d c d c				
			11. 12. 13. 14.				
			a b b c				

Qu	estion III: Fill in the space with the correct word(s) (14 pts)
1.	involves any business transactions executed electronically between companies.
2.	is the collection of rules, procedures, and relationships that must be followed by an expert system to achieve the
	proper outcome.
3.	Key to the success of grid computing is a(n) that acts as a grid leader and traffic monitor.
4.	allows more than one person to use a computer system at the same time.
5.	refers to the use of computing resources, including software and data storage, on the Internet rather than on local
	computers.
6.	A(n) is a field or set of fields that uniquely identifies a record.
7.	involves combining two or more tables in a relational database.
8.	lets programmers learn one powerful query language and use it on systems ranging from PCs to the largest
	mainframe computers.
9.	is an open source programming language whose code can be directly embedded into HTML code and run on a
	Web server.
10.	is a development and Web services platform from Microsoft that allows developers to use different programming
	languages to create and run programs.
11.	A(n) can be used in an enterprise to enable the sharing of information between employees, training for new
	employees, or customer support for products.
12.	Specialized hardware and software, such as devices, can be used to encode data and
	information to help prevent unauthorized use.
13.	The science of designing machines, products, and systems to maximize the safety, comfort, and efficiency of the people
	who use them is called
14.	The is the oldest computing society and boasts more than 80,000 members in more than 100

countries.

### **Model Answer-Final Fall 2017**

### **Question I: True/False (14 pts)**

1. 2. 3. 4. 5. **T F F T T** 6. 7. 8. 9. 10. **T F F T T** 11. 12. 13. 14. **F T T F** 

### **Question II: Multiple Choice (14 pts)**

1. 2. 3. 4. 5. c b b d c 6. 7. 8. 9. 10. a d c d c 11. 12. 13. 14. a b b c

### Question III: Completion (15 pts)

E-commerce knowledge base central server Time sharing Cloud computing 9. 10. 7. **SQL** Hypertext .NET primary key Joining Preprocessor (PHP) 11. 13. wiki encryption ergonomics **Association for** Computing Machinery (ACM)

Occarded A Maria		appropriate answer from the following MCQs.
Question 1: Multiple Choice (5 pts):	Select the	appropriate
is a group of programs that application programs.	provides	an interface between database and
(a.) Database management system database		Records Field
Which of the following feature will N     Content of data collected     Access will be provided to which	C.	Logical structure of the data to arrange
Main benefits of using data base approx     a. Standardization of data access	oach over	other traditional approaches is difficulty to access and retrieve data
data and program dependence	4	reduced data integrity
4. In CCIS-KSU, type of network conne	ecting wit	hin office and computer lab is
(a) Local Area Network b. City Area Network	c.	Wide Area Network *
A City Area Network	d.	Metropolitan Area Network
<ol> <li>Type of architecture in which compu</li> </ol>	iters conn	ect to switch in topology.
a. Bus y	(5)	Star
b. Central		Mesh
*		*
6. The layer is responsible for fil		
(a) Network ×		Transport
b. Link ×	× d	Application
× ×	,	
√7 is a type of malware th		+
7 is a type of malware th		+
7 is a type of malware the	nat execut	es when specific conditions occur like date ar
7 is a type of malware the time. a. Virus	nat execut	es when specific conditions occur like date ar  Logic bomb
7 is a type of malware the	nat execut	es when specific conditions occur like date ar
7 is a type of malware the time. a. Virus b. Worm	nat execut d.	es when specific conditions occur like date ar Logic bomb Trojan horse
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Question II: Completion (10 pts): Select the keyword from the table to complete the sentence. Attribute Peer-to-Peer Extranet Logical design Data\_dictionary Front-end Hacker Business Bandwidth Structured Query Object-oriented Language 16 1. 1 is an ANSI standard query language for relational databases. application used in the database model is the type that interacts with users. 3. In DBMS, 5 represents abstract model of how data should be structured and arranged to meet an organization's information needs. 4. \_\_\_\_ is the gathering the right information in a timely manner and usable form and analyzing it to have a positive impact on business and enterprise. 5. 2 is the type of architecture in which each computer has equal capabilities. grefers to the rate at which data is transferred via the communication channel. 4 allows customers or suppliers to access part of company's intranet. employees from visiting websites not related to work. 10. \_\_\_\_\_\_ is the type of professional from outside who has penetrated a computer network, usually with no criminal intent. Question III: True/False (5 pts): Select the appropriate answer from the following T/Fs. 1. Attribute is the characteristic of an entity or object. T × 2. Hub device is smarter than switch. F Coaxial cable is used for telephone system architecture. 4. Entity-relationship (ER) diagrams represent the data models that use basic graphical symbols to show the organization and relationships between data entities. T 5. In flat file type database, fields can be separated by delimiters with comma or tab characters. 6. Email application is the example of a peer-to-peer (P2P) architecture. × 7. Network in a limited geographical area such as home or office building could be a wired LAN (Ethernet) or a wireless LAN. × 8. Switch is a network layer device. x 9. While a virus can completely halt the operation of a computer system, it is incapable of destroying programs or data. ★ 10. Web bugs are usually invisible. 

✓

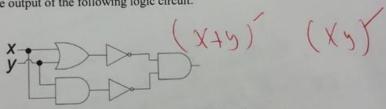
#### IS201-Fundamentals and Ethics of Information Systems Quiz 1 v1

Name:

Student ID:

5+1

- 1. Information should be complex to bring more value (True or False)
- 2. An Information System provides feedback to meet an objective (True or
- 3. Systems implementation defines system components (True or False)
- 4. Converting or transforming data into useful outputs is called:
  - b- Feedback (c-)Processing a. Output
  - e- Transformation d- Converting
- 5. Management of raw materials is called:
  - c- Value chain a. Downstream management b- Midstream management
  - e- Raw management d-Upstream management
- 6. Which of the following is NOT an example of an information system:
  - b- Transaction Processing Systems a. Enterprise Resource Planning
  - c- Management Information Systems d-None of the above
- 7. Find the output of the following logic circuit:



- 8. The Boolean expression (A + B)' + C + (A+A') is equivalent to:

  - a- (A' + C) (B' + C) + 0 b- (A' + C) + (B' + C) + 1 c- (A' + B') + C + 0d- (A' C) + (B' C) + 1 e- (A + B + C)' + 1 f- (A' + C) (B' + C)

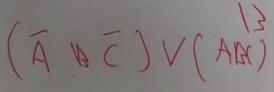
- 10. 11011 10111 = \( \frac{1}{2} \)

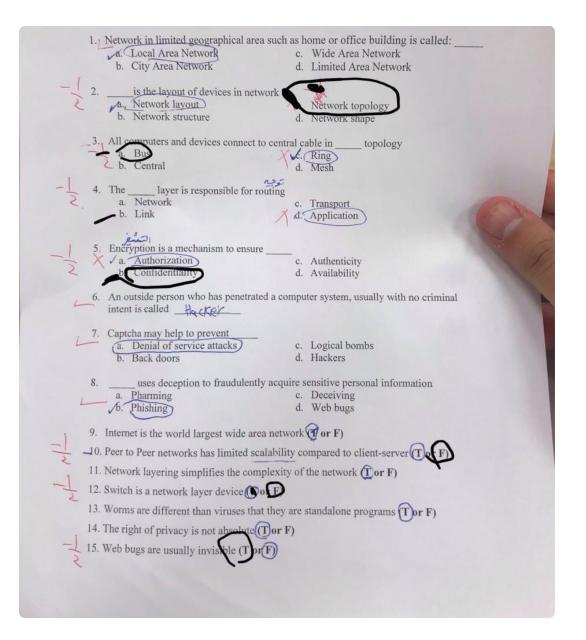
  11. The decimal equivalent to \( \frac{1}{1} \)

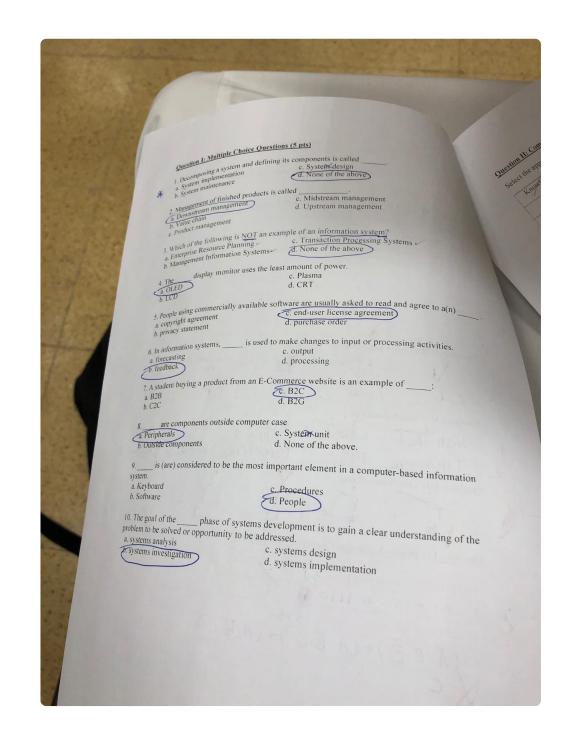
  11. The decimal equivalent to \( \frac{1}{2} \)

  11. The decimal equivalent to \( \frac{1}{2} \)
- 12. Convert the decimal number 71 to binary:
- 13. (101011101011)2 to hexadecimal:
- 14. Convert the hexadecimal number 4D3 to decimal:









## Transaction Prog system Affecution Pregraming interface

#### Question II: Completion (5 pts)

Select the appropriate keyword from the matching table to complete the sentence

lect the approp	riate keyword from the n	natching table to con	- Con	TPS
Knowledge	Enterprise	Procedures	Transaction	APT
	Cloud Computing	logical 🗼	High Speed	
Time	-	Processing		
Ipput	Database		that provid	es High spe

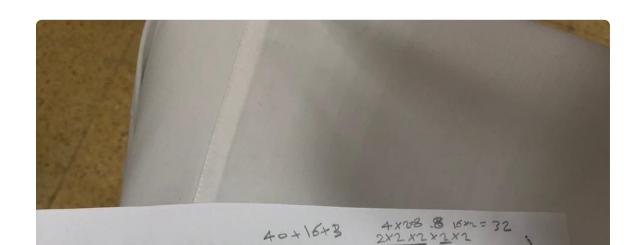
- 1. Storage Area network is a special-purpose, high-speed network that provides \_ Lish-speed connectivity among data storage devices and computers over a network.
- 2. The ALU unit performs mathematical calculations and makes percal comparisons.
- refers to the use of computing resources, including software and data storage, on the Internet rather than on local computers. 4. Time sharing, allows more than one person to use a computer system at the same time.

55 (31) APT allows applications to make use of the operating system.

- 7. TPS is an organized collection of people, procedures, software, databases, and devices
- 8. A(n) Enterpricesource planning is a set of integrated programs that manages the vital business operations for an entire multisite, global organization.
- is an organized collection of raw facts and information Database
- 10. \_\_\_\_ is the activity of gathering and capturing raw data Knowledge

#### 11. Question III: True/False (5 pts)

- المعتونية المعت
- 2. The CPU registers store data permanently.
- 3. A Petabyte is (1024 \* 1024) GB. F Tera
- 4. Sequential access is faster than Direct access. F \*
- 5. Command-based user interface uses icons to interact with users. T
- 6. Mouse is an example of an output device. F
- 7. The technology infrastructure is a set of shared IS resources that form the foundation of each computer-based information system. T \*
- 8. DSSs typically provide standard reports generated with data and information from a TPS or ERP system.
- 9. Mobile commerce is the use of mobile, wireless devices to place orders and conduct business. T
- 10. The degree to which an organization supports its use is an important factor that can lead to better attitudes about an information system. T



# Question IV: Binary Logic and conversion (5 pts)

- 1. (110111)2 to ( 59 )10
- 2. 11011 01101 = 0 1110
- 3. (101011[01]) to (535)8

4. The

0 0 0	00	В	C	Output	
1 1 0		0	0	0	
		1	1	0	

9070			-	1100
0	1	0	0	-> (A.B.C)
0	0	1	0	4 5 5 1
1 =	0	0	0	-> (A. B. C)
1	1	1	0	- (A.B.C)
1	1	0	0	ALCOHOL: NO
1	0	1	0	
1977		II		

- 5. The Boolean expression A.B +A (B+C) + B (B+C) is equivalent to
  - a. (B+ A C)
  - (c. (BC+AC)

- b. (A B + A C)
- d. (A' + B') (A + B)'

# Part 2: Network Telecommunication and Networks Question 1: Multiple Choice

has a limited dista	nce and transmission speed and can be used for telephone
c. Faber-optic cable	b. Coaxial cable d. Microwave signal
2) Which wireless communication tec	chnology has the smallest frequency range
a. Microwave frequency	b. Infrared frequency
Consider KSU-CCIS labs that contri	d. All operate in the same range ain computer systems connected in a network to form a
a. PAN ×	b. MAN
c. WAN X	AND AND
<ol> <li>Which of the following telecommun with different protocols.</li> </ol>	ication devices serve as an entrance to another network
a. PBX	b. Bridge
5) In web development which	d. Router
pages?	language used to define the visual appearance of web
a. HTML ×	b. XML ⊀
Z. ESS	d. JavaScript ×
Quantian 2. The orn	

Question 2: True (T) or False (F)

We will which p	be moving from 4G to 5G wireless communication promises many standards including lower power of	on in the near future,
2) Web 2.0	is a two-directional resource.	
, , ,		T

	Name of Street, Street
Part 1: Database system Question 1: Multiple Co	n and A
- Triulline (	hoice
a. Back end	application that interact directly with people
c. Spin-off	b. Front end
	d. None of the above
A technique used by busine tactics, strategy and operations	
a. KPIs	s. which will affect the:
(c.) Competitive intellig	Dence
Question 2: True (T) or 1	
1) A Data Mart is a subset of	B data was l
sized businesses and department	a data warehouse that is used by small- and medium- ts within large companies to support decision-making.
	support decision-making
database in external land	emory Database (IMDB) is that it stores the entire
database in external hard drives.  3) Organizations usually bin	RAM stores the entire
position to be responsible for cont	d database administrator, which is a nontechnical
1 4 7	tont of the database.
Question 3: Fill in the blank	S 2 : Ala
words from the list below to fi	ill in the blanks
ata mining, Big data, Data Mart	t, Online Analytical Processing (OLAP)]
T A 11	
analysis Is a form of	f database processing that supports top-down, query-driven data
There are three characteristics ass variety.	sociated with Big Dato which are volume, velocity and
	willon are volume, velocity and

## Part 1: Hardware and Software Question 1: Multiple Choices is a simple type of computer system (including some sort of processor) that is implanted in and dedicated to the control of another device. a. Enterprise operating b. Embedded operating system system c. Workgroup operating d. d. Mobile operating system system Which of the following is the name of a technology that employs a microchip with an antenna to broadcast its unique identifier and location to receivers. A. Radio Frequency b. Smart Card Identification (RFID) c. Point-of-sale d. Speech Recognition A low-cost, centrally managed computer with essential but limited capabilities and no extra drives (such as CD or DVD drives) or expansion slots a. Laptop × b. Nettop c. Desktop x Thin Client Which of the following is NOT a component of the central processing unit (CPU) a. Memory (regetter) b. Arithmetic/Logic unit c. Control Unit d. None of the above Question 2: True (T) or False (F) 1) Random Access Memory (RAM) is a non-volatile permanent storage. Hardware independence allows software development without understanding the inner workings of the operating system.

## Question 2: True (T) or False (F)

- 1) A script bunny is a professional computer hacker.
- 2) The biggest threat for many companies are Insiders because they have access and
- For a person to conduct social engineering attach, he must have enough technical and computer skills to bypass security measures.

## Question 3: Short answers

List Four types of malware and identify a unique property that distinguish it from the others

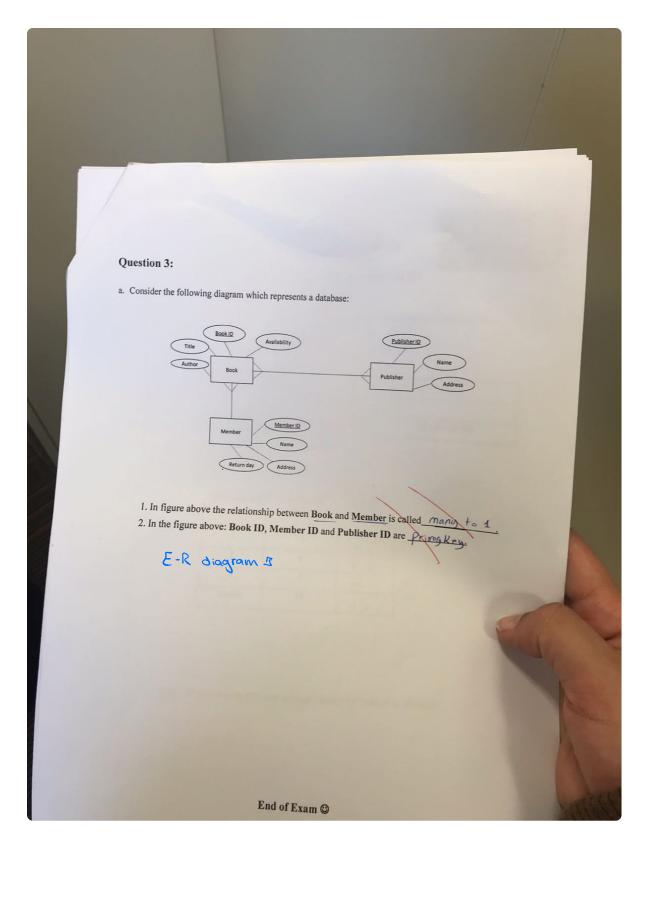
torjen horse > the user does not fell of 15. viruse -> centinu effecting others ombuters. Pomep > destrayes all system ..

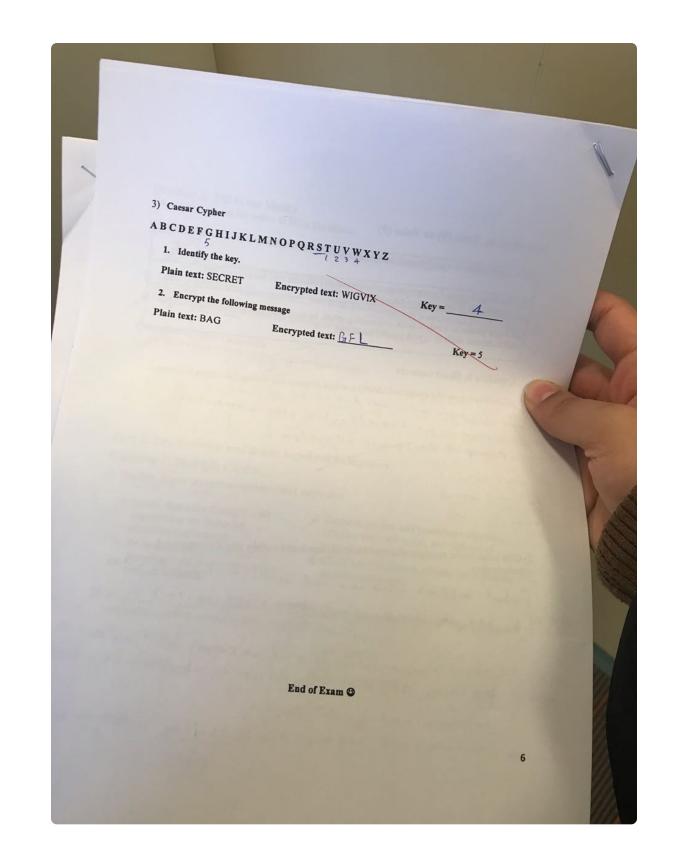
2) Give a real world example of a cyberterrorism attack and explain why it is considered

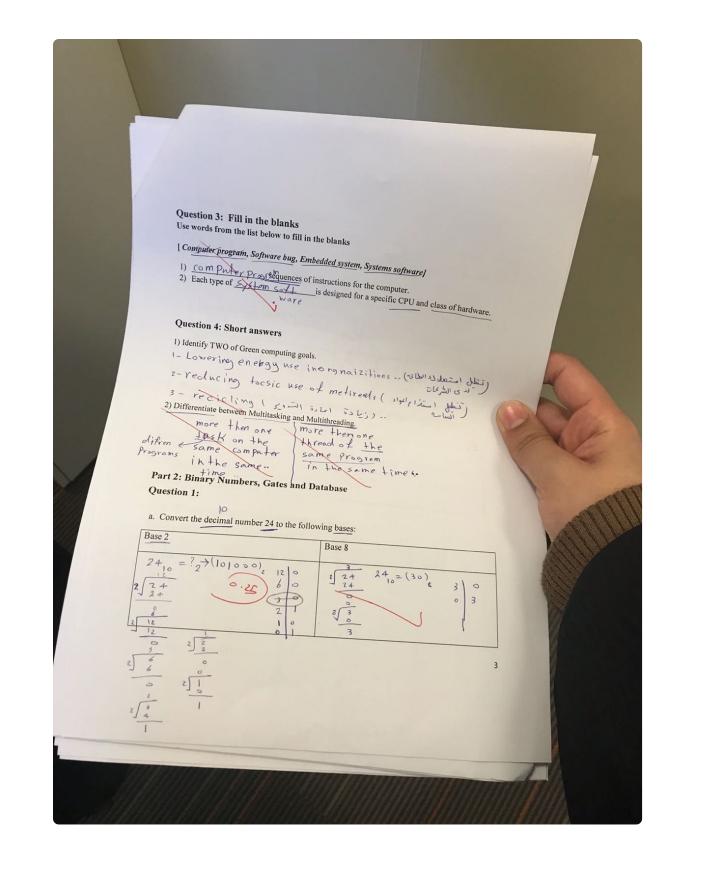
" JIII of what happent when us and israli created a program to spy on the new electrons wibens in iran ...

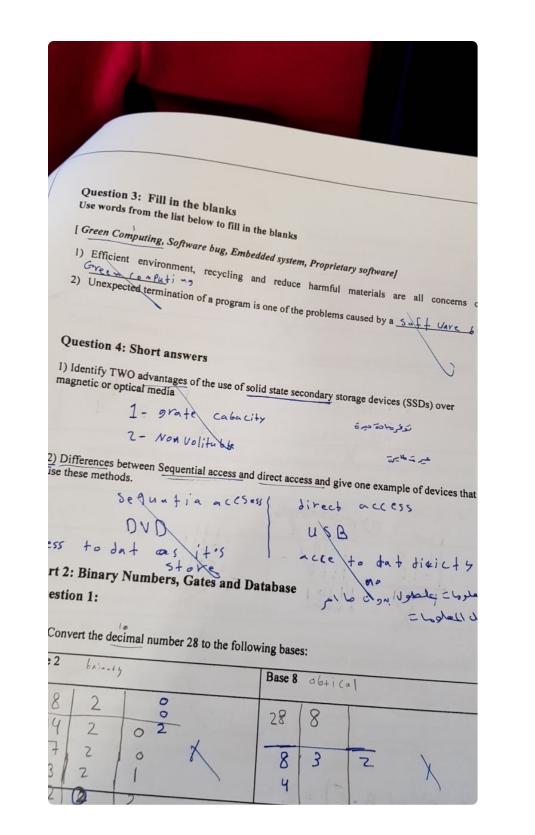
cyberterrorism intermedition of government or cilium nation

by using information tognologys to achive a polotical and relegistic and usual saals...
... cull fand what was and estil dog is thrifting iranspover ment.









stion 2: True (T) or False (F)	
ites are hardware device built from transistor to	mimic Boolean logic.
uth table capture every inputs possible for circ	uit.
3: Database system and Application	
ion 1: Multiple Choices	
asic data manipulation includestabase according to certain criteria.	that involves eliming
a. Projecting c. Linking	d. Joining
is special-purpose program	nming language for acc
stored in relational database.	b. DDL
oSQL	d. Data dic
2: Fill in the blanks from the list below to fill in the b	lanks
Data cleansing, Data validation, L	
	ification of "bad d

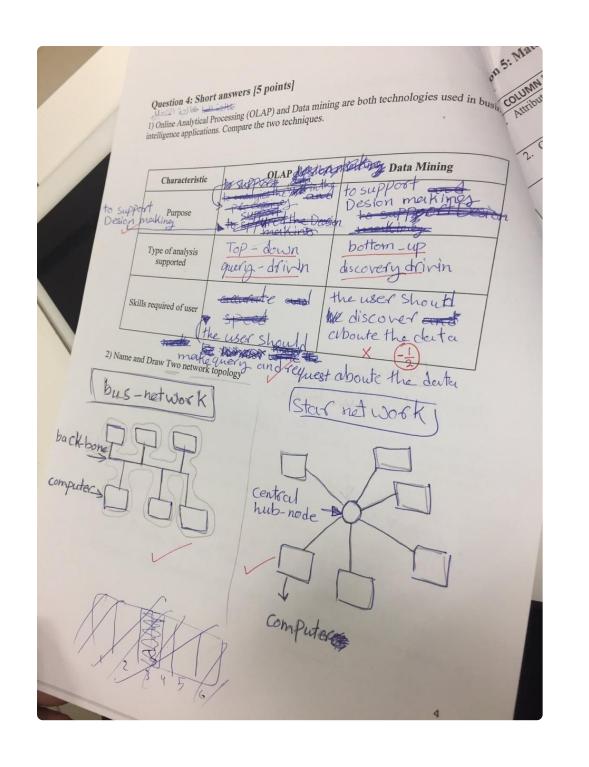
has a limited distance and transmission speed and can be used for telephy. The Hart distance with the b. Microwave signal

d. Coaxial col. Question 1: Multiple Choices [3 points] a. Twisted-pair wire c. Faber-optic cable is part of domain names that are dedicated to business sites. b. .net a. .org d. .com c. .gov is the standard page description language. 3) In web pages, \_ a. Cascade style sheet (CSS) b. Java script d. Hypertext mark-up language (HTML) c. Extensible Markup Language (XML) 4) Which of the following is a consideration you should take into account when building a database? a. Access b. Content c. Physical organization d. All the above is used to perform data retrieval and updates. a. Data definition language b. Query by example (QBE) (DDL) c. Data manipulation language (DML) d. Data conversion language (DCL) is a visual approach to developing database queries or request. a. Structured query language (SQL)

c. Not only SQL (NoSQL)

b. Query by example (QBE)

d. Data definition language (DDL)



ES HSCA HI DILSTIN	a 5: Match colu	ımn A with column B [5 points]
) Listing	COLUMN [A] Attribute Gateway	COLUMN[B]  A. Connects one LAN to another LAN that uses the same telecommunication protocol.
3.	Bridge	B. Converts digital signals to analogue signals and vice versa.  C. A communications standard that enables traffic to be routed from one network to another as needed.
	File V	D. Value of an attribute
6.		E. Allows customers or suppliers to access part of company's intranet  F. A collection of related records

G. Is World's largest WAN

I. Is a characteristic of an entity

H. Eliminating rows according to certain criteria

J. A network device that serves as an entrance to another network.

#### Answer

7. Extranet

8. Data item

9. Internet Protocol (IP)

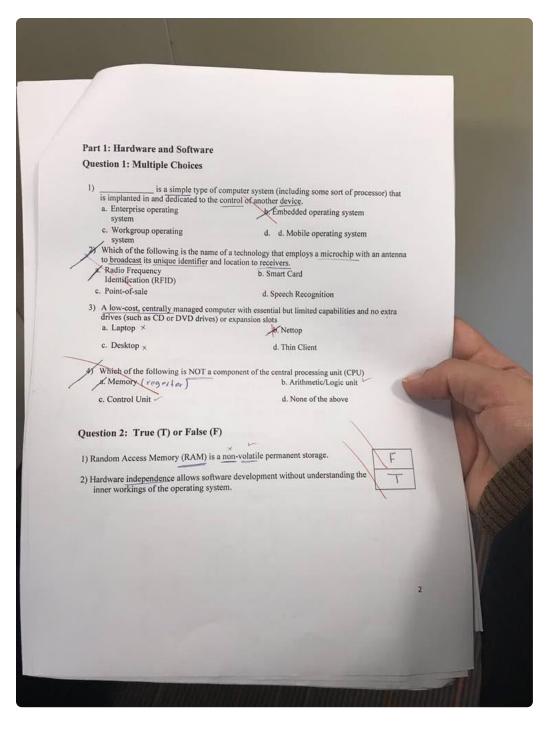
10. A modem

COLUMN [A]	COLUMN[B]
1	I
2	JV
3	A
4	FV
5	GIV
6	HV
7	FV
8	DV
9	CV
10	B

**End of Exam** 

A 9	- 1941		
Will the I			
" of /		MINITE	12
2 (on 2, 7		x x 1 1/1/1	[[ <del>]</del>
Jon 2: 1	rue (T) or False (F) [4	points]	
Columns	(4 Columns) with Table I	3 (3 Columns) will result a Table v	N
3) The DBMS can front-end appro	ansmitted over single com- pensive long-distance com- interact with other progra- pach.	munication cost. ms and applications. This is called	on C
4) NoSQL database	es enforce ACID propertie	s and can work with Big data.	1 1
5) In the database a uses data files of	pproach to data managem	ent each distinct operational syst	
6) Horizontal porta	is are pages that provide i	nformation and links for special-	
make copies of	copy right protected cont	hnology to limit the user's abilitent.	
Near Field Com technology.	munication (NFC) is a ve	ry short-range wireless connect	ivity
Manage Co.			
[In-Memory Data Geographic inform Network Managem	nation_systems (GIS), ent Software	Eoreign Key, Predictive A PAN, MAN, LAN, Netwo	rk Operating System,
Gos 1) Caecarphic	into meeting the pro	cess of adding geographical is	lentification to media.
2) AND A	1 A Connects	users and their devices in an	area that spans a campus
- 3) To link two rela	tions (Tables) together	. Primary Key	_is copied from the first
- 4) Network (1)	performs process parallel request	best on multiple multicore	central processing unit
5) Predictive	Analysis combines	historical data with as	sumptions about futur
conditions,	Acceptant systems s	oftware that controls the con	nputer systems and device
on a network.	nahousement		
Software	Alexande		
SOFTWAND			

tion 2. Th	
tion 2: True (T) or False (F)	
tes are hardware device built from transistor	to mimic Boolean logic
ath table capture every inputs possible for cir	cuit.
: Database system and Application	
ion 1: Multiple Choices	
sic data manipulation includes	that involves elimi
abase according to certain criteria.  a. Projecting	b. Selecting
c. Linking	d. Joining
is special-purpose progra	imming language for ac
stored in relational database.	b. DDL
QL	1 Day die
oSQL	d. Data die
2: Fill in the blanks from the list below to fill in the	blanks
Data cleansing, Data validation,	DMBS, NoSQL, Da
/	tification of "bad d





#### Question 5 (CLO 6): Short answers [3 points]

- 1. List four types of computer-related mistakes.
  - anexpectical Error

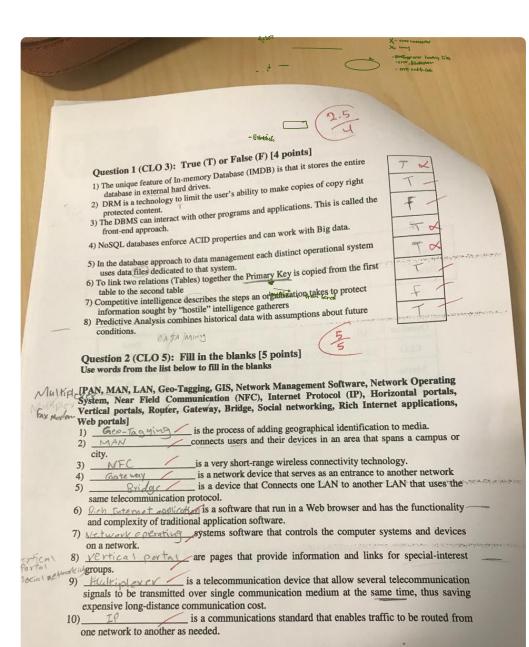
  - Error by devlotoer
     throng choice capacity for computer action
     Error by user

  - Error in the output / Entire data
- 2. How can we prevent computer-related waste and mistakes?
  - Establish policies and presedur
     Implant rolice and presedur
     antrol Police and precedur
     overview on policeic and preceder

3. Identify and briefly discuss two specific information systems that are used to fight crime.

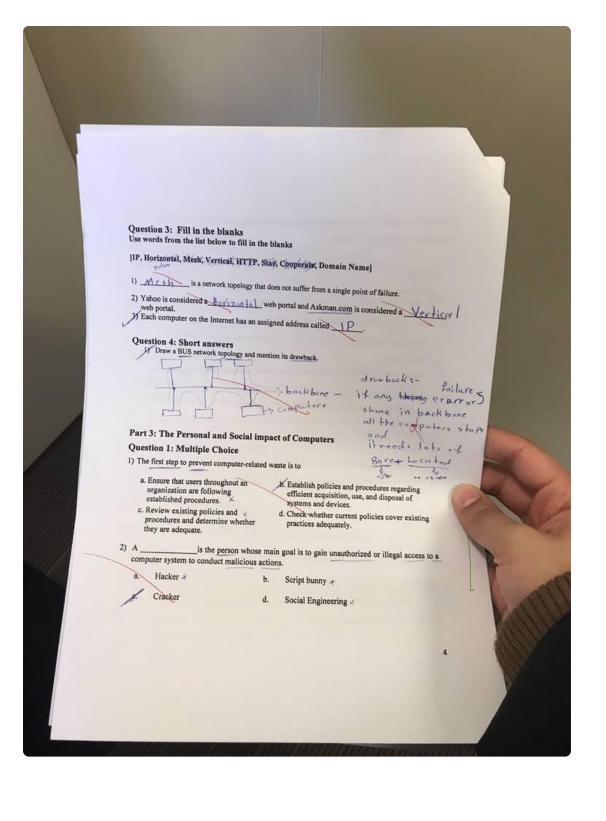
trainer just \_ Jestid Change : give information of crimnul / Car number = lads Online : for I tem's steal of cremnal , sex crime

**End of Exam** 



# Question 2: True (T) or False (F)

1114		
1) A scri	pt bunny is a professional computer hacker.	
	computer hacker.	
2) The b	ggest threat for many companies are Insiders because they have access and	
crede	ntials to the company set Insiders because the	
X For	network. sevadse they have access and	- 19
and com	person to conduct social engineer	
	rater skills to bypass security measures. The must have enough	
	person to conduct social engineering attach, he must have enough technical	
Question	a 3: Short answers	
16.	ar types of malware and identify a unique	
List Fo	ar types of malware and identify	A
torio	a house a unique property that distinguish	
	in types of malware and identify a unique property that distinguish it from the others	
VIPE	se -> centinuetta lan 1	Perf.
Pam	se > centinu effecting others ombuters. ep > destroyes all system	ARC .
1 9 10	of Toes Frages all system	-
	cumbuter	
	om buter	
Give a real	world example of a cyberterrorism attack and explain why it is considered	
yberterrorism.	attack and explain why it is considered	
-111	and the state of t	2
What I	rappent when us and israli created a program	100
1 000	the state of the s	1
TO Pry	on the newclear was wibens iniran	D.V
	للاسلية المنووية	
chper	terrorisme intermedition of operment or citive nation sing information fognologys to achive a polotical and	
bun	sing lad a lad a lad	/ IB
	my Information tegnology, to achive a Poloticul and	11/13
relea	ich i i	11/15
_ it it is	istic and usuals sals	1000
1 Land	what we and	897
	thrating irangover ment-	100
	what us and estil dos 1 thrifting iranspover ment.	9/
	Land	



Part 2: Network Telecommun	
Question 1: Multiple Choice	ication and Networks
has a limited dista	ince and transmission speed and can be used for telephone
Twisted-pair wire	
c. Faber-optic cable	b. Coaxial cable
2) Which wireless community	d. Microwave signal
a Microuse C	chnology has the smallest frequency range
Microwave frequency	b. Infrared frequency
Radio-frequency	4 40
Consider KSU-CCIS labs that cont	ain computer systems connected in a network to form a
a. PAN ×	b. MAN
c. WAN ×	all
4) Which of the following telecommun	nication devices serve as an entrance to another network
	an chiralice to another network
a. PBX	b. Bridge
e. Gateway	d. Router
) In web development, which markup	language used to define the visual appearance of web
pages?	appearance of web
a. HTML ×	b. XML ⊀
z.ess	d. JavaScript ×
	- and a second
uestion 2: True (T) or False (F)	Committee of the last of the l
True (1) or raise (F)	
Wa will be	and the second second second
We will be moving from 4G to 5G wi	reless communication in the near future, uding lower power consumption. 753



# uestion 4 (CLO 6): Match column A with column B [5 points]

	COLUMN[B]
COLUMN [A]	A. An inexperienced hacker who download programs that automate the job of
1. Cracker $\mu$	breaking into computers
2. Script bunny	the user's interaction with the computer without the knowledge of personal the user.
3. Malware F	C. Going through the trash of an organization to find secret or confidential information
4. Spyware	D. A scam that attempts to steal an individual's private information by having them call a phone number and enter personal data
5. Password sniffer	E A malware designed to steal money directly from ATM machines
. Phishing ]	F. Software programs that when loaded into a computer system will destroy, interrupt, or cause errors in processing
Vishing 1)	G. A small program hidden in a network that records identification numbers and passwords
Dumpster diving	H. The person whose main goal is to gain unauthorized or illegal access to a computer system to conduct malicious actions
Identity Theft	The perpetrator sends an email that looks as if it came from a legitimate institution
Ploutus E	J. An imposter obtains personal identification information in order to impersonate someone else

#### ne table below to answer the question:

COLUMN [A]	COLUMN[B]
1	H _
2	A -
3	F-
4	B -
5	9 /
6	I -
7	D -
8	C -
9	J -
10	E -



Question 3 (CLO 5): Comparisons [3 points]

1) Network topology is a diagram that indicates how the communications links and hardware devices of the network are arranged. Differentiate between two types of network topologies by specifying the <a href="mailto:name">name</a> and <a href="mailto:drawing a diagram">drawing a diagram</a> for the network topology.

	Network topology 1	Network topology 2
Name	Busnetwork	Mesh network
Diagram		
	0	0-0
	7	
		The second secon
100000	/	
		AND DESCRIPTION OF THE PARTY OF

2) Differentiate between centralized processing, decentralized processing and distributed processing in term od <u>location</u> and <u>communication</u>.

<b>Processing Alternatives</b>	Location	Communication	
Centralized processing	one location (sigle)	No Communica	
Decentralized processing	various location	the Connot be	
Distributed processing	location (" Various location")	they can be connect with each other	

## **Question Completion Status:**

#### **QUESTION 1**

Whenever an act is considered ethical it must also be legal

- O True
- False –

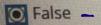
#### **QUESTION 2**

Right of paternity is the right to object to disrespectful treatment of a work



Right of paternity is the right to object to disrespectful treatment of a work

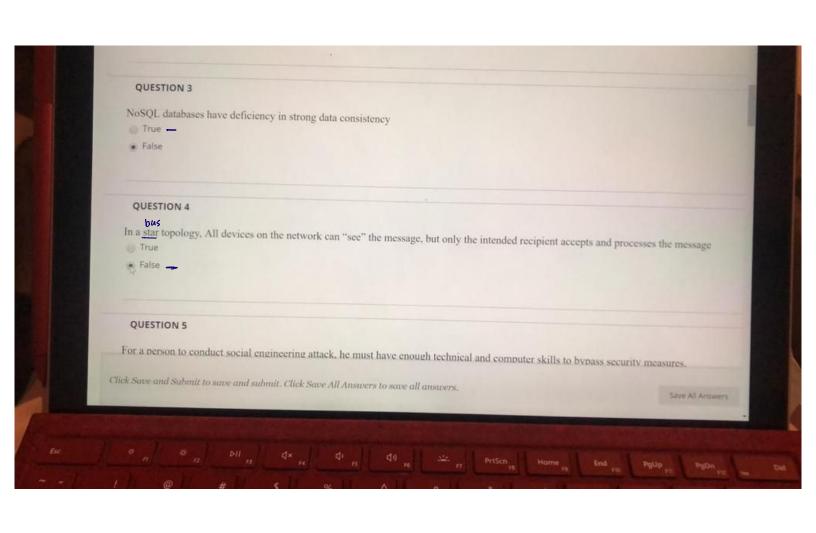
O True



#### **QUESTION 3**

NoSQL databases have deficiency in strong data consistency





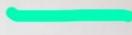
Q	U	E	S	TI	0	N	5

social skills

For a person to conduct social engineering attack, he must have enough technical and computer skills to bypass security measures.

True

• False \_\_



#### **QUESTION 6**

ETL process is vital in data warehouse to ensure the quality of the data.

True -

False

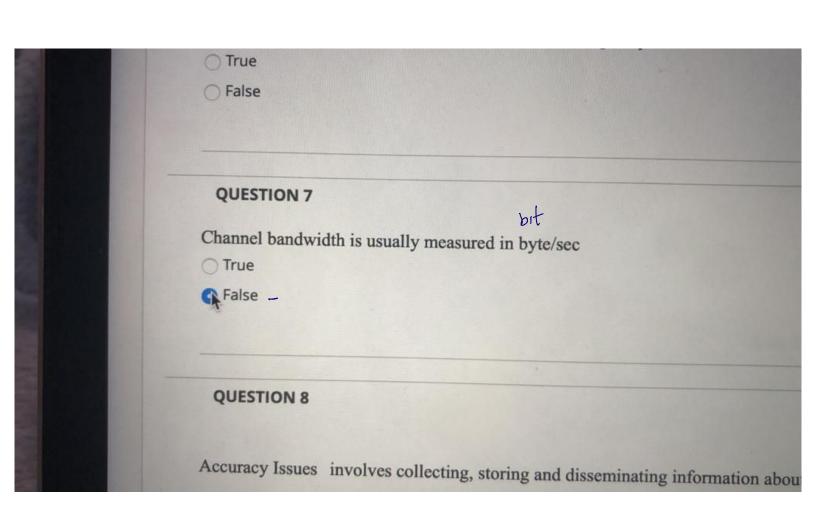


#### **QUESTION 7**

Channel bandwidth is usually measured in byte/sec

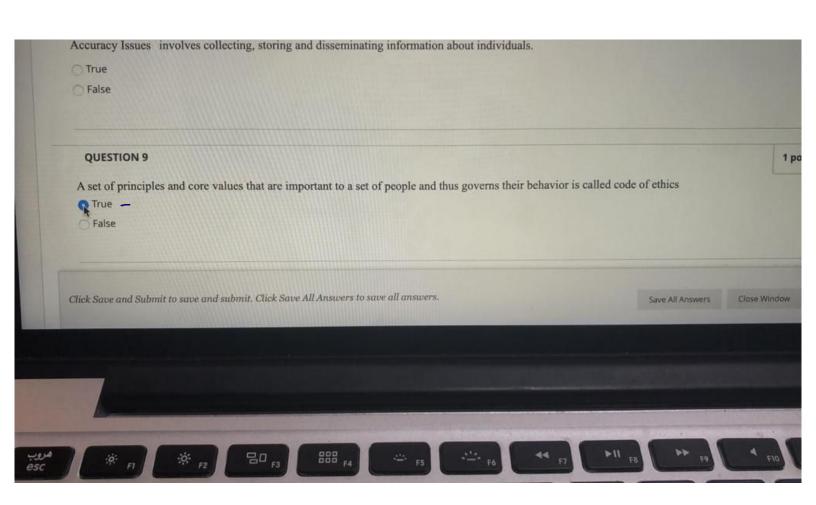
True

Ealco



المؤسسة لدعم اتخاذ القرارات الإدارية بالمسلمات ETL process

- Extract استفراج استفراء - Transform معاسسيرات تحول Load حمل Load



○ False

#### **QUESTION 10**

which wireless communication technology has the highest frequency range

- A. Microwave frequency
- PB. Infrared frequency -
- C. Radio frequency
- OD. All operate in the same range

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

	QUESTION 11
	Which of the following is considered to be a telecommunications medium?
	A. Fiber-Optic cable
	B. Coaxial Cable
	C. Twisted-Pair wire
100	CD. All of the above —
и	
ш	QUESTION 12
	Which of the following is considered Ethical?

	naining Time: 1 hour, 38 minutes, 06 seconds. estion Completion Status:
	O D. All of the above
	QUESTION 12
	Which of the following is considered Ethical?
	A. Student downloads a video from a website to place in
?.	B. Student makes a copy of software borrowed from her to
	C. Student use a copy and paste command to place large t
	O. Student uses her friend's computer without her permiss
	QUESTION 13
	When unwanted actions happens within the computer system is probably caused by:
	A Hacking
	Click Save and Submit to save and submit. Click Save All Answers to so
0	Type here to search
7	Type here to search

Remaining Time: 1 hour, 37 minutes, 01 second.

**▼ Question Completion Status:** 

#### **QUESTION 13**

When unwanted actions happens within the comput is probably caused by:

- A. Hacking
- 2 B. Script bunny
  - C. Spyware
  - D. All of the above



#### **QUESTION 14**

Sarah is a student at KSU; she's searching for a book university's library has the desired book. The site the the book she wants is available or not. The interaction

- A Front-end application
- B. Back-end application

Sarah is a student at KSU; she's searching for a book of one of her courses. She connects to KSU Web site to find out whether the university's library has the desired book. The site then interacts with a database that contains a list of library books to determine whether the book she wants is available or not. The interaction with DBMS in this example is:

- A. Front-end application
- B. Back-end application
- QC. A and B
- D. None of the above

MEED Mini-Market is a company that operates over 500 stores in Saudi Arabia and is present in 10 cities each store is managed to meet local retail conditions. Which of the following processing types is most suitable for MEED:

- A. Centralized processing
- B. Decentralized processing -
- C. Distributed processing
- O. None of the above

#### **QUESTION 17**

Greater emphasis is being placed on prevention and detection of computer crime by:

C   Ims.ksu.edu.sa/webapps/assessment/ta	ake/launch.jsp?cours			
Remaining Time: 1 hour, 14 minutes, 50 seconds.				
QUESTION 17				
Greater emphasis is being placed on preven	tion and detection o			
A. Private users				
B. Companies				
© C. Employees				
D. All of the above				
QUESTION 18				
Data Administrator is a skilled and trained I	S professional who:			
A. Works with users to define their data n	needs.			
B. Tests and evaluates databases.				
C. Implements changes to improve their o	databases' performan			
Click Save and Submit to save and submit. Click So	ive All Answers to save			
O Type here to search	O # 6			

Remaining Time: 1 hour, 19 minutes, 09 seconds. **Varion Completion Status:** INOTIC OF THE ADOVC **QUESTION 17** Greater emphasis is being placed on prevention and detection of computer crime by: A. Private users B. Companies C. Employees D. All of the above -OHECTION 18

# **▼ Question Completion Status:** C. Employees D. All of the above **QUESTION 18** Data Administrator is a skilled and trained IS professional A. Works with users to define their data needs. B. Tests and evaluates databases. C. Implements changes to improve their databases' per O. Assures that data is secure from unauthorized access E. All of the Above F. None of the above -1 **QUESTION 19** Click Save and Submit to save and submit. Click Save All Answers Type here to search

# **Question Completion Status:**

- C. All of the Above
- OF. None of the above

# QUESTION 19

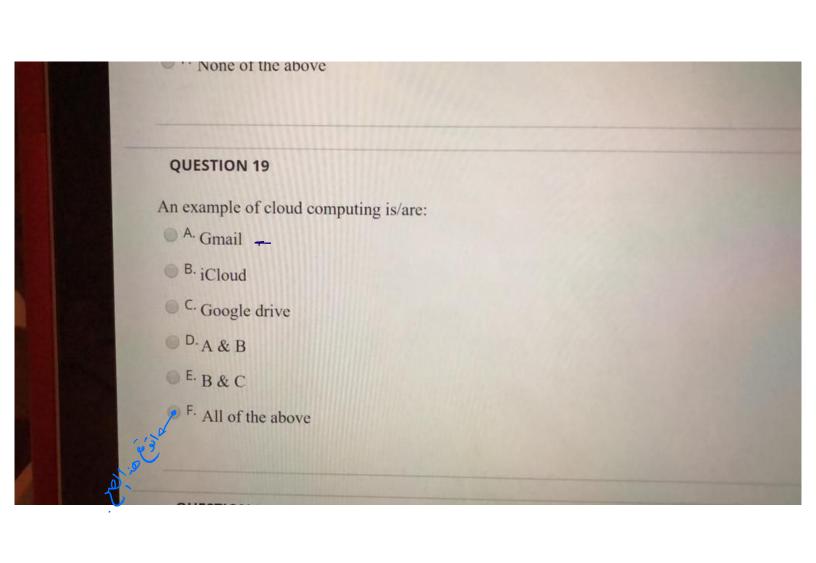
An example of cloud computing is/are:

- OA. Gmail =
- OB. iCloud
- C. Google drive
- OD. A & B
- E. B & C
- OF. All of the above

# **QUESTION 20**

An example of Rich Internet Application

Click Save and Submit to save and submit. Click Save All Ansu



An example of Rich Internet Application

- A. Windows
- B. Google Docs —
- C. Google Chrome
- Youtube

Ahmed invents a new a product. In order for him to protect his invention, he needs to apply for

- O A. None of the above
- B. Patent
- O C. Design right
  O D. Copyright

#### **QUESTION 22**

A hacker steals Sarah's personal identification information to use it to impo

69.32.133.11 is and example of:

- O A. URL
- O B. TCP
- O C. ISP
- O D. IP Address -

#### what is the malware type defined for each scenario below:

1-Salma Installed a software which advertises to be a calendar designer, but after installing it some system files were deleted.

✓ Trojan Horse 💠

2- I don't need a carrier to move around systems, and the user's interaction to activate my payload to infect the computer.

✓ Worm ♦

3-Ahmad was fired from the company he works for. After three months, all servers were shut down and payroll records were all deleted. Logic bomb \$

4- I do need a carrier to move abund systems, and the user's interaction to activate my payload to infect the computer.

Virus

#### **QUESTION 25**

Consider the below table "Doctor" for questions A and B

#### what is the malware type defined for each scenario below:

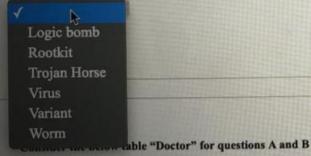
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Logic bomb \$

2- I don't need a carrier to move around systems, and the user's interaction to activate my payload to infect the computer.

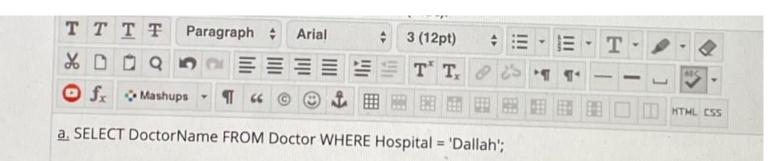
3-Ahmad was fired from the company he works for. After three months, all servers were shut down and payroll records were all 4 deleted.

4- I do need a carrier to move around systems, and the user's interaction to activate my payload to infect the computer.



Which of the following is considered Ethical?

- Student downloads a video from a website to place in her web page and provide reference.
  - B. Student makes a copy of software borrowed from her friend.
  - © C. Student use a copy and paste command to place large text from the internet in her research paper.
  - D. Student uses her friend's computer without her permission.



b. SELECT \* FROM Doctor WHERE Salary > 7000;

# 4. The Four Categories of Ethical

Issues

- Privacy Issues involves collecting, storing and disseminating information

about individuals.

Accuracy Issues involves the authenticity, fidelity and accuracy of information that is collected and

Property Issues involves the ownership - Accessibility Issues revolve around who and value of information. should have access to information and whether they should have to pay for this

access.

# F. None of the above

# **QUESTION 19**

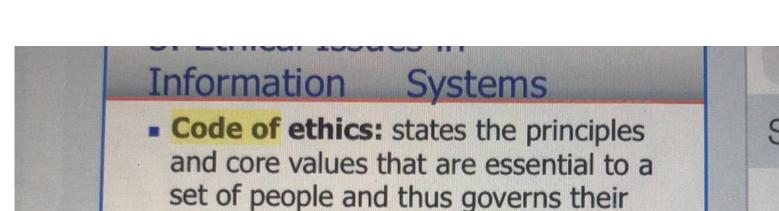
An example of cloud computing is/are:

- A. Gmail -
- B. iCloud
- C. Google drive
- O.A & B
- E. B & C
- F. All of the above

De

QUESTION 20

Cuck Save and Submit to save and submit. Click Save All Ansu



behavior

Channel bandwidth: the rate at whe measured in bits/sec



## X y, All devices on the netwo...

#### Q&A

#### QUESTION

all devices are connected to a common backbone that serves as a shared communications medium.

To communicate a device sends a broadcast message onto...

#### ANSWER

Bus network

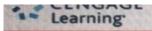
Quizlet · User post

#### More from the web

Message trace in the Security & Compliance Center - Office 365...

You can use the information from message trace to ... For more information, see Permissions in the Security ... values are All senders and All recipients, but...

Microsoft Docs



wired

# Table 4.1 Guided Transmission Media Types

Media Type	Description	Advantages	Disadvantages
Twisted-pair wire	Twisted pairs of copper wire, shielded or unshielded	Used for telephone service; widely available	Transmission speed and distance limitations
Coaxial cable	Inner conductor wire surrounded by insulation	Cleaner and faster data trans- mission than twisted-pair wire	More expensive than twisted- pair wire
Fiber-optic cable	Many extremely thin strands of glass bound together in a sheathing; uses light beams to transmit signals	Diameter of cable is much smaller than coaxial cable; less distortion of signal; capable of high transmission rates	Expensive to purchase and install
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Technology	Description
Radio frequency range	Operates in the 3 kHz-300 MHz range
Microwave— terrestrial and satellite frequency range	High-frequency radio signal (300 MHz-300 GHz) sent through atmosphere and space (often involves communications satellites)
Infrared frequency range	Signals in the 300 GHz- 400 THz frequency range sent through air as light waves

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- Fidelity
- Confidence
- You CANNOT contract out of "reasonable" liabilities

# 6.1.2. Intellectual Property Law

- Moral rights
  - the right to be identified as the author of a work, known as the right of paternity
  - the right to object to disrespectful treatment of a work,
     known as the right of integrity
- Copyright
  - Protects original works, sound recordings, typographical layouts
  - Patents
    - Protect ideas which are novel and not obvious
- Design rights
  - Protect designs such as circuit board layout

# 6.1.3. Data Protection Law

- The subject of personal data has the right to view and correct that data
- Personal data should be accurate, adequate, relevant and kept up to date
- Personal data should not be kept for longer than is necessary
- Appropriate technical and organisational



X es involves collecting, stori...

## Q&A

#### QUESTION

 involves collecting, storing, and disseminating information about individuals

#### **ANSWER**

Privacy

Quizlet · User post

## More from the web

MIS 3321 Quiz 3 Fall 2007 - UCA | Faculty

\_ issues involve collecting, storing and disseminating information about individuals. a) privacy. b) accuracy.

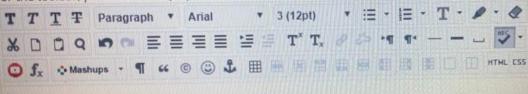
UCA | Faculty

#### Write the appropriate SQL statements that perform the following queries and what they will return:

a. List all doctors' names working in 'Dallah' hospital

b. List all doctors' information with salary more than 7000

For the toolbar, press ALT+F10 (PC) or ALT+FN+F10 (Mac).

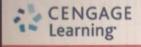


b-

111, khalid, alhabib, 10000

444, Salem, Dallah, 12000

555, May, Alhammadi, 8500



# Spyware

- Software installed on a personal computer to intercept or take partial control of the user's interaction with the computer without the knowledge or permission of the user
- Similar to a Trojan horse

Lieuwingly install it when they